

Abstracts

Transverse Resonance Analysis Discontinuities of Finline

R. Sorrentino and T. Itoh. "Transverse Resonance Analysis Discontinuities of Finline." 1984 *Transactions on Microwave Theory and Techniques* 32.12 (Dec. 1984 [T-MTT] (1984 Symposium Issue)): 1633-1638.

A method of analysis is proposed for characterizing finline discontinuities. Two conducting or magnetic planes are inserted at some distances away from the discontinuity so as to obtain a closed resonant structure. A transverse resonance technique is then used to compute the resonant frequencies and, from these, the equivalent circuit parameters of the discontinuity. In the particular case when the discontinuity is removed, the method can be used to characterize uniform finlines.

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